

BX-16A

16-channel 64-track Audio Playback Module
Model BX-16A



AUDIO/VIDEO

The BX-16A is an uncompressed audio playback module for the BinloopX. It provides 16-channels of audio output and up to 64-tracks of polyphonic playback, sourced from up to thousands of audio files.

FEATURES:

- ▶ Purpose-Built Embedded Design
- ▶ Uncompressed WAV Audio Playback
- ▶ Sample-Accurate Synchronization
- ▶ 16 Channels of 24-bit 48k Audio Output
- ▶ 64 Tracks of Polyphonic Playback
- ▶ 128GB Internal SSD
- ▶ DSP with 9-Band Parametric EQ & Filters
- ▶ 16x16 Dante/AES67 Network Audio

APPLICATIONS:

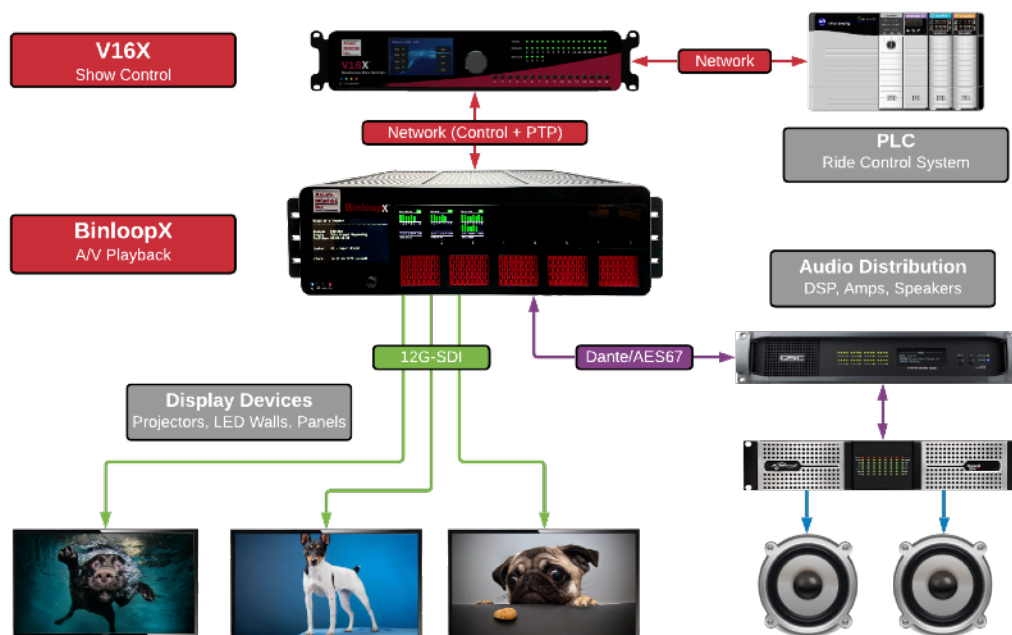
- ▶ Dark Rides
- ▶ Parades
- ▶ Interactives
- ▶ Museum Exhibits
- ▶ Visitor Centers

The industry's favorite synchronized A/V player has been completely reengineered with our X-Series architecture to be the ultimate A/V platform for themed attractions. By leveraging the power of our industry-standard show control engine and the precision of our advanced SyncCore synchronization system, the BinloopX integrates perfectly with the Alcorn McBride ecosystem of products. This makes it the perfect solution to add high-quality A/V playback to any attraction.

Each BX-16A audio module provides 16 outputs of 24-bit 48kHz uncompressed audio with up to 64 tracks of audio playback that can be mixed into those outputs. The 128GB internal SSD enables ultra-reliable low-latency playback of thousands of uncompressed audio clips. 16 inputs are also available for Network Audio Bypass mode, which allows audio inputs from a production workstation to be quickly routed to the BX-16A's outputs without re-patching the audio network. These outputs and inputs are provided on a 16x16 Dante/AES67 network audio interface with support for redundant Primary and Secondary networks.

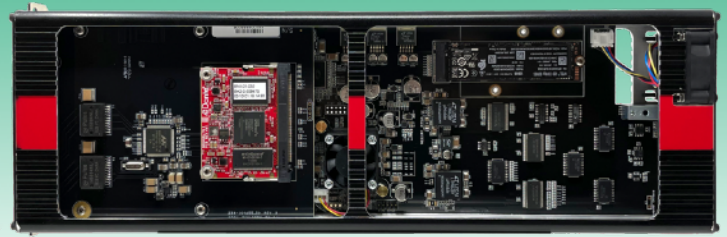
With multiple BX-16A modules, a single BinloopX chassis can provide up to 128 outputs of 24-bit 48kHz uncompressed audio with up to 512 tracks of audio playback that can be mixed to those outputs. All playback can be scheduled and synchronized with sample-accurate precision.

Experience the ultimate in audio and video playback with Alcorn McBride reliability.



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PRODUCT SPECIFICATIONS

Audio

Formats	WAV (Multichannel, Stereo, or Mono)
Output Channels	16
Playback Tracks	64 (Polyphonic)
Sample Rates	48 kHz 44.1 kHz
Bit Depths	24-bit 16-bit
Dynamic Range	>104 dB
Network Audio	16x16 Dante (RJ45 - Primary and Secondary) 16x16 AES67 (RJ45 - Primary and Secondary)
DSP	9-band Parametric EQ High-Pass, Low-Pass, Notch Filters Phase Shift, Treble Shelf, Bass Shelf
Storage	128GB M.2 SSD (Internal) 250+ hours of uncompressed audio content Thousands of clips

Synchronization

Clock Accuracy	<1 uS /w <1ppB Free-run accuracy
Reaction Time	<1 Sample (When scheduled)

Physical

Power	Powered by BinloopX Chassis 16W Typ, 25W Max
Dimensions	1.6"W x 14.9"D x 5.1"H (40mm x 378mm x 130mm)
Weight	2 lbs (0.9 kg)
Environment	0°C (32°F) to 38°C (100°F) 0-90% Relative Humidity
Mounting	BinloopX A/V Module Slot
Compliance	UL, CE, CB, WEEE, RoHS

**Alcorn
McBride
Inc.**